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United States District Court  
Southern District of New York

1:19-cv-08993-VM

Ryan Cosgrove, Clive Rhoden, individually  
and on behalf of all others similarly situated,

Plaintiffs,

- against -

Blue Diamond Growers,

Defendant

First Amended Class Action  
Complaint

Plaintiffs by attorneys allege upon information and belief, except for allegations pertaining to plaintiffs, which are based on personal knowledge:

1. Blue Diamond Growers (“defendant”) manufactures, distributes, markets, labels and sells almondmilk beverages purporting to be flavored only with vanilla, under the Almond Breeze brand (“Product”).

2. The Product is available to consumers from retail and online stores of third-parties and is sold in cartons of 32 OZ and 64 OZ.

3. The relevant representations include “Almond Breeze,” “Almondmilk” and

“Vanilla.”



4. The Product is misleading because although labeled as “vanilla almondmilk,” it has less vanilla than the label represents, contains non-vanilla flavors which provide its vanilla taste and contains artificial flavors, not disclosed to consumers on the front label as required by law and

consumer expectations.

I. Vanilla is Constantly Subject to Efforts at Imitation Due to High Demand

5. The tropical orchid of the genus *Vanilla* (*V. planifolia*) is the source of the prized flavor commonly known as vanilla, defined by law as “the total sapid and odorous principles extractable from one-unit weight of vanilla beans.”<sup>1</sup>

6. Vanilla’s “desirable flavor attributes...make it one of the most common ingredients used in the global marketplace, whether as a primary flavor, as a component of another flavor, or for its desirable aroma qualities.”<sup>2</sup>

7. Though the Pure Food and Drugs Act of 1906 (“Pure Food Act”) was enacted to “protect consumer health and prevent commercial fraud,” this was but one episode in the perpetual struggle against those who have sought profit through sale of imitation and lower quality commodities, dressed up as the genuine articles.<sup>3</sup>

8. It was evident that protecting consumers from fraudulent vanilla would be challenging, as E. M. Chace, Assistant Chief of the Foods Division of the U.S. Department of Agriculture’s Bureau of Chemistry, noted “There is at least three times as much vanilla consumed [in the United States] as all other flavors together.”<sup>4</sup>

9. This demand could not be met by natural sources of vanilla, leading manufacturers to devise clever, deceptive and dangerous methods to imitate vanilla’s flavor and appearance.

10. Today, headlines tell a story of a resurgent global threat of “food fraud” – from olive

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<sup>1</sup> 21 C.F.R. §169.3(c).

<sup>2</sup> Daphna Havkin-Frenkel, F.C. Bellanger, Eds., *Handbook of Vanilla Science and Technology*, Wiley, 2018.

<sup>3</sup> Berenstein, 412; some of the earliest recorded examples of food fraud include unscrupulous Roman merchants who sweetened wine with lead.

<sup>4</sup> E. M. Chace, “The Manufacture of Flavoring Extracts,” *Yearbook of the United States Department of Agriculture* 1908 (Washington, DC: Government Printing Office, 1909) pp.333–42, 333 quoted in [Nadia Berenstein, "Making a global sensation: Vanilla flavor, synthetic chemistry, and the meanings of purity," History of Science 54.4 \(2016\): 399-424 at 399.](#)

oil made from cottonseeds to the horsemeat scandal in the European Union.<sup>5</sup>

11. Though “food fraud” has no agreed-upon definition, its typologies encompass an ever-expanding, often overlapping range of techniques with one common goal: giving consumers less than what they bargained for.

#### A. Food Fraud as Applied to Vanilla

12. Vanilla is considered a “high-risk [for food fraud] product because of the multiple market impact factors such as natural disasters in the source regions, unstable production, wide variability of quality and value of vanilla flavorings,” second only to saffron in price.<sup>6</sup>

13. The efforts at imitating vanilla offers a lens to the types of food fraud regularly employed across the spectrum of valuable commodities in today’s interconnected world.<sup>7</sup>

14. The highlighted entries describe deceptive practices used by defendant in selling and marketing its Vanilla Almondmilk.

<u>Type of Food Fraud</u>	<u>Application to Vanilla</u>
➤ Addition of markers specifically tested for instead of natural component of vanilla beans	• Manipulation of the carbon isotope ratios to produce synthetic vanillin with similar carbon isotope composition to natural vanilla
➤ Appearance of <i>more</i> and/or higher quality of	• Ground vanilla beans and/or seeds to provide visual appeal as “specks” so consumer thinks the product contains real

<sup>5</sup> Jenny Eagle, [‘Today’s complex, fragmented, global food supply chains have led to an increase in food fraud’](#), FoodNavigator.com, Feb. 20, 2019; M. Dourado et al., [Do we really know what’s in our plate?](#), Annals of Medicine, 51(sup1), 179-179 (May 2019); Aline Wisniewski et al., [“How to tackle food fraud in official food control authorities in Germany.”](#) Journal of Consumer Protection and Food Safety: 1-10. June 11, 2019.

<sup>6</sup> Société Générale de Surveillance SA, (“SGS “), [Authenticity Testing of Vanilla Flavors – Alignment Between Source Material, Claims and Regulation](#), May 2019.

<sup>7</sup> Kathleen Wybourn, DNV GL, [Understanding Food Fraud and Mitigation Strategies](#), PowerPoint Presentation, Mar. 16, 2016.

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|--|---|
| the valued ingredient  | vanilla beans, when the ground beans have been exhausted of flavor  |
| <ul style="list-style-type: none"> <li>➤ Substitution and replacement of a high-quality ingredient with alternate ingredient of lower quality</li> </ul> | <ul style="list-style-type: none"> <li>• Caramel to darken the color of an imitation vanilla so it more closely resembles the hue of real vanilla<sup>8</sup></li> <li>• Annatto and turmeric extracts in dairy products purporting to be flavored with vanilla, which causes the color to better resemble the hue of rich, yellow butter</li> <li>• Tonka beans, though similar in appearance to vanilla beans, are banned from entry to the United States due to fraudulent use</li> <li>• Coumarin, a toxic phytochemical found in Tonka beans, added to imitation vanillas to increase vanilla flavor perception</li> </ul> |
| <ul style="list-style-type: none"> <li>➤ Addition of less expensive substitute ingredient to mimic flavor of more valuable component</li> </ul>          | <ul style="list-style-type: none"> <li>• Synthetically produced ethyl vanillin, from recycled paper, tree bark or coal tar, to imitate taste of real vanilla</li> </ul>   |
| <ul style="list-style-type: none"> <li>➤ Compounding, Diluting, Extending</li> </ul>   | <ul style="list-style-type: none"> <li>• “to mix flavor materials together at a special ratio in which they [sic] compliment each other to give the desirable aroma and taste”<sup>9</sup></li> <li>• Combination with flavoring substances such as propenyl guaethol (“Vanitrope”), a “flavoring agent [, also] unconnected to vanilla beans or vanillin, but unmistakably producing the sensation of vanilla”<sup>10</sup></li> </ul>   |

<sup>8</sup> Renée Johnson, “[Food fraud and economically motivated adulteration of food and food ingredients](#),” Congressional Research Service R43358, January 10, 2014.

<sup>9</sup> Chee-Teck Tan, “[Physical Chemistry in Flavor Products Preparation: An Overview](#)” in Flavor Technology, ACS Symposium Series, Vol. 610 1995. 1-17.

<sup>10</sup> Berenstein, 423.

- Addition of fillers to give the impression there is more of the product than there actually is
- “Spiking” or “fortification” of vanilla through addition of natural and artificial flavors including vanillin, which simulates vanilla taste but obtained from tree bark
  - Injection of vanilla beans with mercury, a poisonous substance, to raise the weight of vanilla beans, alleged in *International Flavors and Fragrances (IFF), Inc. v. Day Pitney LLP and Robert G. Rose*, 2005, Docket Number L-4486-09, Superior Court of New Jersey, Middlesex County
  - Subtle, yet deliberate misidentification and obfuscation of a product’s components and qualities as they appear on the ingredient list
    - “ground vanilla beans” gives impression it describes unexhausted vanilla beans when actually it is devoid of flavor and used for aesthetics
    - “natural vanilla flavorings” – “-ing” as suffix referring to something *like* that which is described
- Ingredient List Deception<sup>11</sup>
  - “Vanilla With Other Natural Flavors” – implying – wrongly – such a product has a sufficient amount of vanilla to characterize the food
  - “Natural Flavors” – containing “natural vanillin” derived not from vanilla beans but from tree pulp. When paired with real vanilla, vanillin is required to be declared as an artificial flavor
  - “Non-Characterizing” flavors which are not identical to vanilla, but that extend vanilla

15. The “plasticity of legal reasoning” with respect to food fraud epitomize what H. Mansfield Robinson and Cecil H. Cribb noted in 1895 in the context of Victorian England:

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<sup>11</sup> Recent example of this would be “evaporated cane juice” as a more healthful sounding term to consumers to identify sugar.

the most striking feature of the latter-day sophisticator of foods is his knowledge of the law and his skill in evading it. If a legal limit on strength or quality be fixed for any substance (as in the case of spirits), he carefully brings his goods right down to it, and perhaps just so little below that no magistrate would convict him.

*The law and chemistry of food and drugs.* London: F.J. Rebman at p. 320.<sup>12</sup>

## II. Flavor Industry's Efforts to Use Less Vanilla, Regardless of any Shortages

16. The "flavor industry" refers to the largest "flavor houses" such as Symrise AG, Firmenich, Givaudan, International Flavors and Fragrances (including David Michael), Frutarom and Takasago International along with the largest food manufacturing companies such as Unilever.

17. The recent global shortage of vanilla beans has provided the flavor industry another opportunity to "innovate[ing] natural vanilla solutions...to protect our existing customers."<sup>13</sup>

18. Their "customers" do not include the impoverished vanilla farmers nor consumers, who are sold products labeled as "vanilla" for the same or higher prices than when those products contained *only* vanilla.

19. These efforts include (1) market disruption and manipulation and (2) the development of alternatives to vanilla which completely or partially replace vanilla.

### A. Attempts to Disrupt Supply of Vanilla to Create a "Permanent Shortage"

20. The flavor industry has developed schemes such as the "Sustainable Vanilla Initiative" and "Rainforest Alliance Certified," to supposedly assure a significant supply of vanilla at stable, reasonable prices paid to the farmers.

21. However, these programs make vanilla less "sustainable" by paying farmers to destroy their vanilla plants and produce palm oil under the pretense of "crop diversification."

22. Other tactics include "phantom bidding," where "deep-pocketed" saboteurs claim

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<sup>12</sup> Cited in Sébastien Rioux, "[Capitalist food production and the rise of legal adulteration: Regulating food standards in 19th-century Britain](#)," *Journal of Agrarian Change* 19.1 (2019) at p. 65 (64-81).

<sup>13</sup> Amanda Del Buono, [Ingredient Spotlight](#), Beverage Industry, Oct. 3, 2016.

they will pay a higher price to small producers, only to vanish, leaving the farmers forced to sell at bottom dollar to remaining bidders.<sup>14</sup>

23. A reason for these counterintuitive actions is because the flavor industry benefits from high vanilla prices and the use of less real vanilla.

24. When less vanilla is available, customers of flavor companies – food manufacturers – must purchase the higher margin, proprietary, “vanilla-like” flavorings made with advanced technology and synthetic biology.

B. Promotion of Imitation Vanilla Instead of Real Vanilla

25. For decades, the trade group, The Flavor and Extract Manufacturers Association (“FEMA”) successfully protected consumers from misleading and fraudulent vanilla labeling through managing a system of “self-policing” where companies were held accountable to industry standards which followed federal regulations.

26. However, FEMA was strong-armed into abandoning these efforts and disbanding its Vanilla Committee due to alleged financial pressure from its largest members such as Givaudan, Firmenich, Danone, Unilever and Nestle.

27. Into this gap, flavor and food companies quickly reverted to practices which had been eradicated with the promulgation of standards of identity for vanilla products in the early 1960s.

28. According to Suzanne Johnson, vice president of research at a North Carolina laboratory, “Many companies are trying to switch to natural vanilla with other natural flavors [WONF] in order to keep a high-quality taste at a lower price,” known as “Vanilla WONF.”

29. The head of “taste solutions” at Irish conglomerate Kerry plc, urged flavor manufacturers to “[G]et creative” and “build a compounded vanilla flavor with other natural

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<sup>14</sup> Monte Reel, [The Volatile Economics of Natural Vanilla in Madagascar](#), Bloomberg.com, Dec. 16, 2019.



flavors.”

30. A compounded vanilla flavor “that matches the taste of pure vanilla natural extracts” can supposedly “provide the same vanilla taste expectation while requiring a smaller quantity of vanilla beans. The result is a greater consistency in pricing, availability and quality.”<sup>15</sup>

31. These compounded flavors exist in a “black box” with “as many as 100 or more flavor ingredients,” including “naturally produced vanillin,” potentiators and enhancers, like maltol and piperonal, blended together to enhance the vanilla, allowing the use of less vanilla to achieve the intended taste.<sup>16</sup>

32. The numerous “naturally produced vanillins” are just as potent as their synthetic predecessors, such that “one ounce of vanillin is equal to a full gallon of single-fold vanilla extract.”<sup>17</sup>

### III. Representations are Misleading Because They Misrepresent the Amount, Percentage and Type of Vanilla in the Product

33. Consumers seek to buy products where vanilla flavor is only provided from vanilla beans and prefer to avoid flavors from sources other than non-vanilla source material for reasons including nutrition, health and/or the avoidance of chemicals and highly processed ingredients.

34. The Product’s designation of its characterizing flavor as “Vanilla” without any qualifying terms – flavored, with other natural flavors, artificially flavored – gives consumers the impression that its entire vanilla flavor (taste sensation) is contributed by the characterizing food ingredient of vanilla beans. *See* 21 C.F.R. § 101.22(i)(1) (describing a food which contains no

<sup>15</sup> Donna Berry, [Understanding the limitations of natural flavors](#), BakingBusiness.com, Jan. 16, 2018.

<sup>16</sup> Hallagan and Drake, FEMA GRAS and U.S. Regulatory Authority: U.S. Flavor and Food Labeling Implications, *Perfumer & Flavorist*, Oct. 25, 2018; Charles Zapsalis et al., *Food chemistry and nutritional biochemistry*. Wiley, 1985, p. 611 (describing the flavor industry’s goal to develop vanilla compound flavors “That *Seem*[s] to be Authentic or at Least Derived from a Natural Source”) (emphasis added).

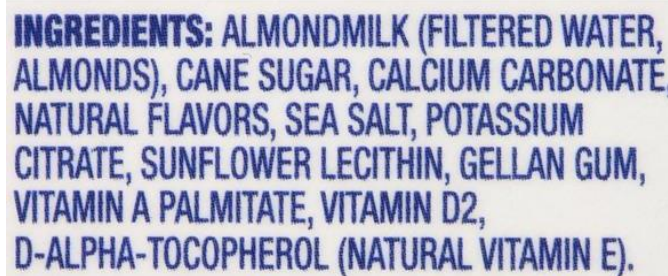
<sup>17</sup> Katy Severson, [Imitation vs. Real Vanilla: Scientists Explain How Baking Affects Flavor](#), Huffington Post, May 21, 2019.

simulating artificial flavor and not subject to 21 C.F.R. § 101.22(i)(1)(i)-(iii)).

35. The unqualified, prominent and conspicuous representations as “Vanilla” is false, deceptive and misleading because the Product contains non-vanilla flavors which imitate and extend vanilla but are not derived from the vanilla bean, yet these flavors are not disclosed to consumers as required and expected.

A. Designation of Flavoring Ingredient on Ingredient List Reveals Non-Vanilla Flavors

36. The presence of non-vanilla flavors is apparent from the ingredient list which designates “Natural Flavors” as the only flavoring ingredient.



**INGREDIENTS:** ALMONDMILK (FILTERED WATER, ALMONDS), CANE SUGAR, CALCIUM CARBONATE, NATURAL FLAVORS, SEA SALT, POTASSIUM CITRATE, SUNFLOWER LECITHIN, GELLAN GUM, VITAMIN A PALMITATE, VITAMIN D2, D-ALPHA-TOCOPHEROL (NATURAL VITAMIN E).

**INGREDIENTS:** ALMONDMILK (FILTERED WATER, ALMONDS), CANE SUGAR, CALCIUM CARBONATE, NATURAL FLAVORS, SEA SALT, POTASSIUM CITRATE, SUNFLOWER LECITHIN, GELLAN GUM, VITAMIN A PALMITATE, VITAMIN D2, D-ALPHA-TOCOPHEROL (NATURAL VITAMIN E).

37. This conclusion is reached by analyzing the relevant regulations which control how ingredients are required to be designated. *See* 21 C.F.R. § 101.4(a)(1) (“designation of ingredients”).

38. Vanilla is the only flavor subject to a standard of identity, which means its own regulations take precedence over the general flavor regulations for being listed on the ingredient list.

39. For example, vanilla extract and vanilla flavoring, are required to “be listed by

common or usual name.” *See* 21 C.F.R. § 101.4(a)(1); *see also* 21 C.F.R. § 169.175(b)(1) (“The specified name of the food is ‘Vanilla extract’ or ‘Extract of vanilla.’”); *see also* 21 C.F.R. § 169.177(b) (“The specified name of the food is ‘Vanilla flavoring.’”).

40. “Natural flavor” is the term used for a flavor that may contain some vanilla and non-vanilla natural flavors. *See* 21 C.F.R. § 101.22(h)(1) (“Spice, natural flavor, and artificial flavor may be declared as ‘spice’, ‘natural flavor’, or ‘artificial flavor’, or any combination thereof, as the case may be.”); *see also* 21 C.F.R. § 101.4(b)(1) (“The name of an ingredient shall be a specific name and not a collective (generic) name, except that: (1) Spices, flavorings, colorings and chemical preservatives shall be declared according to the provisions of 101.22.”).

41. Therefore, the Product’s designation of “natural flavor” reveals it does not consist of an exclusively vanilla ingredient, because otherwise, it would be declared as such.

42. In fact, defendant’s “Natural Flavor” is an ingredient designated in the trade as “Vanilla With Other Natural Flavor,” “Vanilla WONF” and listed sometimes as “Natural Vanilla Flavor With Other Natural Flavor.”

#### B. GC-MS Analysis Confirms the Presence of Non-Vanilla Flavors

43. That the non-vanilla natural flavor in the Product “simulate[s] the characterizing vanilla flavor” is shown through gas chromatography-mass spectrometry (“GC-MS”) analysis.

44. GC-MS is “the analysis method of choice for smaller and volatile molecules such as benzenes, alcohols and aromatics.”<sup>18</sup>

45. First, the sample is vaporized (the gas phase) and separated into its components by a capillary column “packed with a stationary (solid) phase.”

46. The compounds are “propelled by an inert carrier gas such as argon, helium or

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<sup>18</sup> ThermoFisher Scientific, [Gas Chromatography Mass Spectrometry \(GC/MS\) Information](#).

nitrogen” where they separate from each other and “elute from the column at different times, which is generally referred to as their retention times.”

47. After the components exit the GC column, “they are ionized by the mass spectrometer using electron or chemical ionization sources.”

48. Ionized molecules get accelerated through the mass analyzer, which is typically a quadrupole or ion trap.

49. Then the “ions are separated based on their different mass-to-charge ( $m/z$ ) ratios.”

50. The last steps “involve ion detection and analysis, with compound peaks appearing as a function of their  $m/z$  ratios, with peak heights “proportional to the quantity of the corresponding compound.”

51. A sample will generate “several different peaks, and the final readout will be a mass spectrum” which plots the elution time on the X-axis and the amount or intensity of the compounds on the Y-axis.

52. Computer databases of mass spectra are used like a DNA database to match the detected compounds based on their  $m/z$  ratio.<sup>19</sup>

53. GC-MS can provide information about the amount and type of vanilla flavorings in a sample through identifying the four vanilla marker compounds and their relative amounts.

<u>Compounds</u>	<u>Percent Present in Vanilla Beans</u>
vanillin	1.3-1.7 %
p-hydroxybenzaldehyde	0.1%
vanillic acid	0.05%
p-hydroxybenzoic acid	0.03%

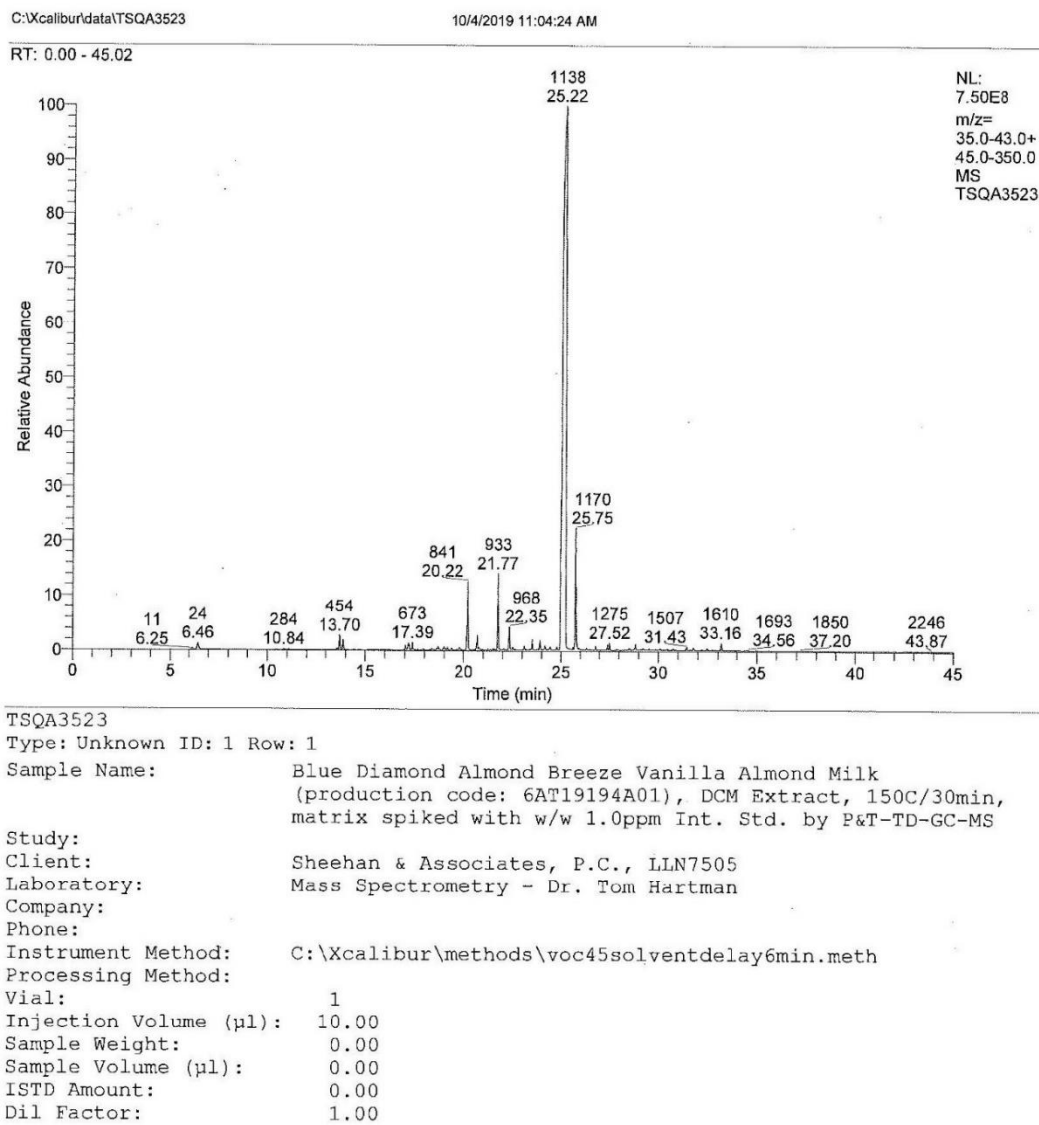
54. GC-MS analysis applied to the Product generated the below chromatogram and peak

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<sup>19</sup> Id.

assignment table. Exhibit "A," GC-MS Report, October 10, 2019.

### Chromatogram



55. The peak assignment table identified flavor compounds by matching their m/z ratio with a database of virtually all known compounds. Exhibit "A," GC-MS Report.

# Peak Assignment Table

Table 1

Sheehan & Associates, P.C., Project #7505  
Blue Diamond Almond Breeze Vanilla Almond Milk  
Production Code 6AT1914A01

Methylene Chloride Extract of 10.0 g with 1 ppm Matrix-Spiked Int. Std. by P&T-TD-GC-MS

Data File = TSQA3523

MS Scan #	Area Integration	Peak Assignment	Conc. PPM w/w
284	108541	acetic acid	0.029
353	9618	propionic acid	0.003
388	10498	acetoin	0.003
439	30395	butyric acid	0.008
449	87672	hexanal	0.023
538	11569	hexyl alcohol	0.003
545	52802	pentanoic acid	0.014
565	34987	2-heptanone	0.009
581	11252	heptanal	0.003
589	35998	pentyl acetate	0.010
603	47535	dimethyl sulfone	0.013
663	776294	hexanoic acid	0.207
673	350958	phenol	0.094
680	30850	6-methyl-5-hepten-2-one	0.008
690	46216	2-pentylfuran	0.012
707	113142	octanal	0.030
711	22989	2-ethyl-5-methylpyrazine	0.006
737	46035	cyclotene	0.012
746	102618	limonene	0.027
750	263434	benzyl alcohol	0.070
759	9215	3-methyl-2(5H)-furanone	0.002
768	275004	heptanoic acid	0.073
778	124067	2-acetylpyrrole	0.033
791	155873	gamma-hexalactone	0.042
807	69726	trans-2-octenal	0.019
816	270925	nonanal	0.072
841	4783874	maltol	1.277
870	1033550	octanoic acid	0.276
875	238793	benzoic acid	0.064
917	59367	2-methoxy-4-methylphenol (p-cresol)	0.016
922	55261	decanal	0.015
933	3747216	naphthalene-d8 (internal standard)	1.000
968	1916895	nonanoic acid	0.512
1014	270717	2,4-decadienal	0.072
1032	50627	glyceryl triacetate (Triacetin)	0.014
1038	622161	2,4-decadienal	0.166
1061	595717	decanoic acid	0.159
1076	441785	alpha-hydroxybenzeneacetic acid (Mandelic acid)	0.118
1091	327324	p-hydroxybenzaldehyde	0.087
1138	127906368	vanillin	34.134
1170	8898018	4-hydroxy-3-methoxybenzyl alcohol (vanillyl alcohol)	2.375
1180	136776	gamma-decalactone	0.037
1203	136621	acetovanillone	0.036
1213	71076	veratraldehyde	0.019
1224	29855	vanillyl acetate	0.008
1232	215405	lauric acid	0.057
1263	12285	dihydroactinidiolide	0.003
Total (excluding internal standard)			40.27

56. The relative amounts of the detected compounds are indicated in columns two (Area Integration) and four (concentration parts per million or “Conc. PPM w/w.”).

57. Defendant’s vanilla almondmilk reveals vanillin (MS Scan # 1138, 34.134 PPM) and

p-hydroxybenzaldehyde (MS Scan # 1091, 0.087 PPM), but not p-hydroxybenzoic acid or vanillic acid.

58. Additionally, the ratio of vanillin to p-hydroxybenzaldehyde is 390, over twenty times the typical ratio between 12 and 18.

59. The Product also contains maltol (MS Scan # 841, 1.277 PPM), a synthetic flavoring substance not found in vanilla beans. *See* 21 C.F.R. § 172.515(b) (“Synthetic flavoring substances and adjuvants.”).

#### IV. Accurate Labeling of Product

60. Based on (1) the absence of two vanilla marker compounds, (2) the outsized ratio of vanillin to p-hydroxybenzaldehyde and (3) the presence of maltol, the Product’s label of “vanilla almondmilk” is false, deceptive, misleading and in violation of law.

61. The logical explanation for the absence of p-hydroxybenzoic acid or vanillic acid is not because the Product does not contain vanilla, but that it contains a trace or *de minimis* amount such that these aromatic compounds are not detectable by advanced scientific means.

62. It is easier and less questionable to use a flavor with a nominal amount of vanilla, so defendant can credibly and truthfully claim, “Yes, the Products contains vanilla (extract).”

63. The disproportionate amount of vanillin is indicative of a vanilla flavor “spiked” with vanillin, because real vanilla would cause the Product to show more of the non-vanillin marker compounds.

64. Maltol is used to enhance the taste of vanilla by increasing the sweetness of a food, even though it does not “contribute a flavor of its own.”<sup>20</sup>

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<sup>20</sup> 21 C.F.R. § 172.515(b) (“Synthetic flavoring substances and adjuvants.”); [Maltol](#), UL Prospector, Bryan W. Nash & Sons Ltd



65. The Product's front label of "vanilla almondmilk" without qualification tells consumers that all the flavor (taste sensation) is contributed by the characterizing food ingredient of vanilla beans. *See* 21 C.F.R. § 101.22(i)(1) (describing a food which contains no simulating artificial flavor and not subject to 21 C.F.R. § 101.22(i)(1)(i)-(iii)).

66. The presence of vanilla in trace amounts along with purportedly "natural" vanillin and maltol reveal the use of a vanilla WONF, because these substances enhance, simulate and extend vanilla, allowing the Product to use less real vanilla to achieve the same vanilla taste.

67. A "WONF" flavor contains some flavor "from the product whose flavor is simulated [vanilla] and other natural flavor [non-vanilla vanillin and maltol] which simulates, resembles or reinforces the characterizing flavor." *See* 21 C.F.R. § 101.22(i)(1)(iii).

68. The correct labeling of a food containing a WONF flavor is described in 21 C.F.R. § 101.22(i)(1)(iii):

If the food contains both a characterizing flavor from the product whose flavor is simulated and other natural flavor which simulates, resembles or reinforces the characterizing flavor, the food shall be labeled in accordance with the introductory text and paragraph (i)(1)(i) of this section and the name of the food shall be immediately followed by the words "with other natural flavor" in letters not less than one-half the height of the letters used in the name of the characterizing flavor.

69. The application of the WONF concept differs between vanilla and non-vanilla flavors.

#### A. WONF Labeling Requirements

70. For a food containing a non-vanilla WONF, i.e., Strawberry WONF, the front label has two possible flavor designations based on the amount of characterizing flavor from the food whose flavor is simulated.

71. In a food where the characterizing flavor is strawberry, if the amount of strawberries is insufficient to independently characterize the food and the food contains strawberry flavor and



“other natural flavor” which simulates strawberries, the front label would be required to state “[Strawberry] Flavored With Other Natural Flavor.” *See* 21 C.F.R. § 101.22(i)(1)(iii) referring to “paragraph (i)(1)(i) of this section,” 21 C.F.R. § 101.22(i)(1)(i).

72. In a food where the characterizing flavor is strawberry, if the amount of strawberries is sufficient to independently characterize the food and the food contains “other natural flavor” from non-strawberry sources which simulates strawberries, the front label would be required to state “[Strawberry Flavor] With Other Natural Flavor.” *See* 21 C.F.R. § 101.22(i)(1)(iii); *see also* 21 C.F.R. § 101.22(i)(1) (“introductory text” describing a food containing “no artificial flavor which simulates, resembles or reinforces the characterizing flavor,” and none of the subparagraphs of 21 C.F.R. § 101.22(i)(1) apply).

73. WONF labeling and WONF flavors do not apply to vanilla in the same way it does for non-vanilla flavors because vanilla products are not controlled by the general flavoring regulations but by the vanilla standards. *Compare* 21 C.F.R. § 101.22 with 21 C.F.R. § 169.175-21 C.F.R. § 169.182 (vanilla products).

#### B. Vanilla Standards Permit Addition of Specified Ingredients

74. The standards of identity for vanilla ingredients only permit certain ingredients to be added to them:<sup>21</sup> glycerin, propylene glycol, sugar, dextrose, corn sirup and vanillin. *See* 21 C.F.R. § 169.175(a)(1)-(5) (ingredients permitted for addition to vanilla extract); *see also* 21 C.F.R. § 169.180(a) (permitting “not more than 1 ounce of added vanillin” for “each unit of vanilla constituent, as defined in 169.3(c)” in the combination labeled “Vanilla-vanillin extract.”); *see also* 21 C.F.R. § 169.181 (Vanilla-vanillin flavoring), 21 C.F.R. § 169.182 (Vanilla-vanillin

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<sup>21</sup> Of course, there is no prohibition against combining any two flavors. What this means is that the labeling must be adjusted to account for the specificities of vanilla labeling.

powder).

75. The reason the vanilla standards do not provide for the addition of “other natural flavors” is because they were developed precisely to *prevent* the addition of non-vanilla flavors which imitated vanilla but were cheaper and lower quality.

76. When “Other Natural Flavors” are added to a standardized vanilla ingredient, consumers do not receive the same high quality and expensive ingredient they expect, and what they experience as a vanilla taste is really from additives and enhancers.

77. Had the Product’s label stated “Vanilla With Other Natural Flavors,” consumers would be still be misled because this description fails to specify how much of the Product’s flavor is from vanilla vis-à-vis non-vanilla flavors. Exhibit B, Letter from FDA to Ernie Molina, Warner-Jenkinson Company of California, January 17, 1980 (“the general principles of 21 CFR 102.5 should apply” and proportions of each component should be disclosed, i.e., “contains 50% vanilla extract and 50% non-vanilla flavors” or otherwise disclose the proportions.).

#### C. Vanilla Standards Treat Non-Vanilla Vanillin as an Artificial Flavor

78. The “fortification” of vanilla with vanillin is one of the oldest and most deceptive ways companies have used to mislead consumers about the quantity of vanilla in a product.

79. Prior to the enactment of standards under the Federal Food Drugs & Cosmetic Act (“FFDCA”) during the era of the “Pure Food Laws,” Notices of Judgment were regularly issued against manufacturers who passed off imitation vanilla products:

Misbranding was alleged for the further reason that the product was labeled and branded so as to deceive and mislead the purchaser thereof, in that said label was calculated and intended to create the impression and belief in the mind of the purchaser that the product was a genuine vanilla extract, whereas, in fact, it was a mixture of vanilla extract, vanillin, and coumarin, artificially colored with caramel.

Notice of Judgment No. 2241, Adulteration And Misbranding of...Vanilla Extract, United States Department of Agriculture, W. M. Hays, Acting Secretary, Washington, D.C., January 23, 1913.

80. The standards of identity for vanilla products were established to end consumer deception recognize the unique relationship between vanillin and vanilla, based on the former's use to imitate the latter in a more potent and concentrated amount.

81. Though vanillin produced through a natural process, *viz*, fermentation, may be designated as “‘natural flavor’ or ‘contains natural flavor’” in the context of the general flavor regulations at 21 C.F.R. § 101.22 and outside the context of the standardized vanilla ingredients “‘under sections 169.180, 169.181, and 169.182 in 21 CFR.’” Exhibit C, FDA Letter, Ferre-Hockensmith to Richard Brownell, Jr., August 5, 2008, p. 2; Exhibit D, FDA Letter, Ferre-Hockensmith to Betsy D. Carlton, Ph.D., October 8, 2004 (the common or usual name of vanillin derived through a natural fermentation process is “vanillin” though it may be identified as “‘vanillin derived naturally through fermentation’ elsewhere on your product label.”).

82. Where naturally produced vanillin is added separately to a finished food, it could be listed in the ingredients as “‘vanillin’ or ‘natural flavor’ but it should not be done in a way to imply that it is a ‘natural vanilla flavor’ because it is not derived from vanilla beans.” Exhibit E, FDA Letter, Negash Belay to Agneta Weisz, October 10, 2008 (“with respect to labeling, the common or usual name of the product you describe is ‘vanillin,’ regardless of the type of method used to produce it.”); Exhibit F, FDA Letter, Singh to Anthony Filandro, July 9, 1991 (naturally produced “vanillin would not qualify as ‘natural vanillin,’ as defined in 21 CFR 101.22(a)(3), because the vanillin is not obtained from vanilla beans, whose flavor it simulates.”).

83. If the Product's "Natural Flavor" consists of vanilla and "natural" vanillin, a front label designation of "Vanilla With Other Natural Flavors" would still be misleading, because in the context of vanilla, vanillin has never been a "natural flavor," according to legal counsel for The Flavor and Extract Manufacturers Association of the United States ("FEMA"):

The standards for vanilla extract and the other standardized vanilla products at 21 CFR 169 expressly do not provide WONF designation. This means that a flavoring mixture of vanilla extract and vanillin produced through a "natural" process (i.e. a process consistent with the definition of natural flavor at 21 CFR Section 101.22(a)(3)) cannot be described as "vanilla extract WONF," "vanilla WONF" or other similar descriptive terms.

Exhibit G, John B. Hallagan and Joanna Drake, The Flavor and Extract Manufacturers Association of the United States, "[Labeling Vanilla Flavorings and Vanilla-Flavored Foods in the U.S.](#)," *Perfumer & Flavorist*, Vol. 43 at p. 46, Apr. 25, 2018.

84. Designating an ingredient "natural flavor" for a vanilla product gives consumers the false impression this term refers to a "natural vanilla flavor" with a source of vanilla beans. Exhibit H, FDA Letter, Margaret-Hanna Emerick to Richard Brownell, February 25, 2016 ("natural flavor" must not be used in such a way to imply that it is a "natural vanilla flavor" because it is not derived from vanilla beans").

85. Because "Vanilla extract (21 CFR 169.175) and vanilla flavoring (21 CFR 169.177) do not provide for the use of vanillin," which means "vanillin may not be used to make natural vanilla flavors in such standardized foods." Exhibit I, FDA Letter, Ferre-Hockensmith to Richard Brownell, Jr., April 19, 2005, pp. 1-2; *see* 21 C.F.R. § 169.175(a)(1)-(5) (listing glycerin, propylene glycol, sugar, dextrose and corn sirup as only optional ingredients for vanilla extract).

86. Where vanillin is added to vanilla, it must contain the disclaimer "contains vanillin, an artificial flavor (or flavoring)" and be designated as "artificially flavored" on the front label. *See* Vanilla-vanillin extract at 21 C.F.R. § 169.180(b) ("The specified name of the food is 'Vanilla-vanillin extract \_-fold' or '\_-fold vanilla-vanillin extract', followed immediately by the statement

‘contains vanillin, an artificial flavor (or flavoring)’.”); *see also* 21 C.F.R. § 169.181(b), § 169.182(b) (Vanilla-vanillin flavoring and Vanilla-vanillin powder).

87. The Product gets almost all of its flavoring strength from non-vanilla vanillin, because the amount of vanillin which corresponds to the p-hydroxybenzaldehyde would be 1.566 PPM (0.087 PPM x 18), yet vanillin is detected at over 34 PPM.

88. Even if defendant attempts to describe the ingredient used in the Product as “Vanilla With Other Natural Flavors,” this would be a false and deceptive name because almost none of the flavor comes from real vanilla beans.

89. More of the Product’s flavor strength is from non-vanilla vanillin than from real vanilla, which deceives consumers.

90. The correct front label for the Product should be “Artificially Flavored Vanilla Almondmilk” or “Naturally and Artificially Flavored Vanilla Almondmilk.” *See* 21 C.F.R. § 101.22(i)(2).

## V. Products are Misleading Because They are Labeled and Named Similar to Other Products

### A. Products of Competitor and Defendant

91. The following is an example of the product of defendant and competitor.

Competitor Product



**INGREDIENTS:** Organic Almond Base (Filtered Water, Organic Almonds), Organic Vanilla Flavor, Sea Salt, Sunflower Lecithin, Organic Locust Bean Gum, Gellan Gum, Vitamin A Palmitate, Ergocalciferol (Vitamin D2), DL-Alpha-Tocopheryl Acetate (Vitamin E), Riboflavin (Vitamin B2), Zinc Gluconate, Cyanocobalamin (Vitamin B12).

**INGREDIENTS:** Organic Almond Base (Filtered Water, Organic Almonds), **Organic Vanilla Flavor**, Sea Salt, Sunflower Lecithin, Organic Locust Bean Gum, Gellan Gum, Vitamin A Palmitate, Ergocalciferol (Vitamin D2), DL-Alpha-Tocopheryl Acetate (Vitamin E), Riboflavin (Vitamin B2), Zinc Gluconate, Cyanocobalamin (Vitamin B12).

Defendant's Product



**INGREDIENTS:** ALMONDMILK (FILTERED WATER, ALMONDS), CANE SUGAR, CALCIUM CARBONATE, NATURAL FLAVORS, SEA SALT, POTASSIUM CITRATE, SUNFLOWER LECITHIN, GELLAN GUM, VITAMIN A PALMITATE, VITAMIN D2, D-ALPHA-TOCOPHEROL (NATURAL VITAMIN E).

**INGREDIENTS:** ALMONDMILK (FILTERED WATER, ALMONDS), CANE SUGAR, CALCIUM CARBONATE, **NATURAL FLAVORS**, SEA SALT, POTASSIUM CITRATE, SUNFLOWER LECITHIN, GELLAN GUM, VITAMIN A PALMITATE, VITAMIN D2, D-ALPHA-TOCOPHEROL (NATURAL VITAMIN E).

92. The competitor product lists “Organic Vanilla Flavor” on its ingredient list and does not indicate the presence of other flavors not derived from vanilla, as defendant’s Products do through the designation of “Natural Flavors.”

B. Misleading to Have Identical or Similar Product Names Where There Are Significant Differences in Product Quality or Composition

93. Products are required to be identified and labeled in a way consistent with other products of similar composition. *See* 21 C.F.R. § 102.5(a) (“General principles.”) (“The name shall be uniform among all identical or similar products and may not be confusingly similar to the name of any other food that is not reasonably encompassed within the same name. Each class or subclass of food shall be given its own common or usual name that states, in clear terms, what it is in a way that distinguishes it from different foods.”).

94. This framework assures consumers will not be misled by the quality and components of similarly labeled products where one product contains a greater amount, type and/or proportion of a characterizing and valuable ingredient.

95. Where two products are identified by the same descriptive terms and noun such as “Vanilla Almondmilk” and where the front label has no other modifications of these terms, consumers will be deceived into purchasing the lower quality product under the false impression that it contains the equivalent amount of said ingredients or components.

96. The competitor product and defendant’s Product are sold in close proximity to each other and their identical names misleads consumers and plaintiff to expect that both products are identical in quality when the competitor product is of higher quality.



VI. Conclusion

97. The source of a food’s flavor – from the characterizing food ingredient, a flavor derived from the characterizing ingredient, a natural source unrelated to the characterizing flavor or an artificial source – is material to consumers.

98. Defendant’s branding and packaging of the Product is designed to – and does – deceive, mislead, and defraud plaintiff and consumers.

99. Defendant sold more of the Product and at higher prices than it would have in the absence of this misconduct, resulting in additional profits at the expense of consumers like plaintiffs.

100. The value of the Product that plaintiffs purchased and consumed was materially less than its value as represented by defendant.

101. Had plaintiffs and class members known the truth, they would not have bought the Product or would have paid less for them.

102. As a result of the false and misleading labeling, the Product is sold at a premium price, approximately no less than \$2.99 per 32 OZ, excluding tax, compared to other similar products, including various private label store brands, accurately labeled as “artificially flavored” and are thus represented in a non-misleading way, and cost \$2.19 per 32 OZ

Jurisdiction and Venue

103. Jurisdiction is proper pursuant to 28 U.S.C. § 1332(d)(2) (Class Action Fairness Act of 2005 or “CAFA”).

104. Under CAFA, district courts have “original federal jurisdiction over class actions involving (1) an aggregate amount in controversy of at least \$5,000,000; and (2) minimal diversity[.]” *Gold v. New York Life Ins. Co.*, 730 F.3d 137, 141 (2d Cir. 2013).



105. Plaintiff Ryan Cosgrove is a citizen of New York.

106. Plaintiff Clive Rhoden is a citizen of New York.

107. Defendant is a California corporation with a principal place of business in Sacramento, Sacramento County, California and is a citizen of California.

108. This court has personal jurisdiction over defendant because it conducts and transacts business, contracts to supply and supplies goods within New York.

109. Venue is proper in this judicial district because plaintiff Rhoden purchased the Product and resides in this district and became aware of the events or omissions giving rise to the claims in this district. *See* 28 U.S.C. § 1391(b)(2).

110. Venue is further supported because many class members reside in this District.

#### Parties

111. Plaintiff Ryan Cosgrove is a citizen of Bronx, Bronx County, New York.

112. Plaintiff Clive Rhoden is a citizen of Mount Vernon, Westchester County, New York.

113. Defendant Blue Diamond Growers is a California corporation with a principal place of business in Sacramento, California, Sacramento County.

114. During the relevant statutes of limitations, plaintiffs purchased the Product within their district and/or State for personal consumption and/or use in reliance on the representations the Product's vanilla taste was only from real vanilla.

115. Plaintiffs bought the Product because they liked the product type for its intended use and expected the vanilla flavor to only come from real vanilla beans because the front label lacked any reference to the Product being "flavored" nor indicated the presence of other compounds which resembled, simulated and extended any actual vanilla it contained.

116. Plaintiff Cosgrove purchased the Product at Stop & Shop Supermarket, 5716

Broadway, Bronx, New York 10463, on multiple occasions in the summer of 2019.

117. Plaintiff Cosgrove bought the Product because she liked non-dairy milks, expected the vanilla flavor to only come from real vanilla beans because the front label lacked any reference to the Product being “flavored” and did not expect the Product to be artificially flavored due to the presence of vanillin from non-vanilla sources.

118. Plaintiff Rhoden purchased the Product at locations including Stop & Shop Supermarket, 240 E Sandford Blvd, Mt Vernon, NY 10550 and Foodtown of Mount Vernon 31 E Prospect Ave, Mt Vernon, NY 10550, in September 2019.

119. Plaintiff Rhoden bought the Product because he liked non-dairy milks, expected the vanilla flavor to only come from real vanilla beans because the front label lacked any reference to the Product being “flavored” and did not expect the Product to be artificially flavored due to the presence of vanillin from non-vanilla sources.

120. Growing up vanilla was the favorite flavor of plaintiffs and remains so to this day.

121. Plaintiff Cosgrove and Plaintiff Rhoden would buy the Vanilla Chai Products – in a box or tin – again if they were assured the vanilla flavor in the Products was only from real vanilla and did not come from non-vanilla sources and was only made with natural ingredients.

122. Plaintiffs would buy the Product again if assured its vanilla taste was only from real vanilla and did not come from non-vanilla sources.

#### Class Allegations

123. The class will consist of all purchasers of the Product in New York during the applicable statutes of limitations.

124. Common questions of law or fact predominate and include whether defendant’s representations were and are misleading and if plaintiffs and class members are entitled to

damages.

125. Plaintiffs' claims and basis for relief are typical to other members because all were subjected to the same unfair and deceptive representations and actions.

126. Plaintiffs are adequate representatives because their interests do not conflict with other members.

127. No individual inquiry is necessary since the focus is only on defendant's practices and the class is definable and ascertainable.

128. Individual actions would risk inconsistent results, be repetitive and are impractical to justify, as the claims are modest relative to the scope of the harm.

129. Plaintiffs' counsel is competent and experienced in complex class action litigation and intends to adequately and fairly protect class members' interests.

130. Plaintiffs seek class-wide injunctive relief because the practices continue.

New York General Business Law ("GBL"), §§ 349 & 350  
(Consumer Protection Statutes)

131. Plaintiffs incorporate by reference all preceding paragraphs.

132. Plaintiffs and class members desired to purchase and consume products which were as described and marketed by defendant and expected by reasonable consumers, given the product type.

133. Defendant's acts and omissions are not unique to the parties and have a broader impact on the public.

134. Defendant misrepresented the substantive, quality, compositional, organoleptic and/or nutritional attributes of the Product.

135. The amount and proportion of the characterizing component, vanilla, has a material bearing on price or consumer acceptance of the Products because consumers are willing to pay

more for such Products.

136. Plaintiffs relied on the statements, omissions and representations of defendant, and defendant knew or should have known the falsity of same.

137. Plaintiffs and class members would not have purchased the Product or paid as much if the true facts had been known, suffering damages.

Negligent Misrepresentation

138. Plaintiffs incorporate by reference all preceding paragraphs.

139. Defendant misrepresented the substantive, quality, compositional, organoleptic and/or nutritional attributes of the Product.

140. The amount and proportion of the characterizing component, vanilla, has a material bearing on price or consumer acceptance of the Products because consumers are willing to pay more for such Products.

141. Defendant had a duty to disclose and/or provide non-deceptive marketing of the Product and knew or should have known same were false or misleading.

142. This duty is based on defendant's position as an entity which has held itself out as having special knowledge and experience in the production, service and/or sale of the product type.

143. The representations took advantage of consumers' cognitive shortcuts made at the point-of-sale and their trust in defendant, a well-known and respected brand or entity in this sector.

144. Plaintiffs and class members reasonably and justifiably relied on these negligent misrepresentations and omissions, which served to induce and did induce, the purchase of the Product.

145. Plaintiffs and class members would not have purchased the Product or paid as much if the true facts had been known, suffering damages.

Breaches of Express Warranty, Implied Warranty of Merchantability and  
Magnuson Moss Warranty Act, 15 U.S.C. §§ 2301, *et seq.*

146. Plaintiffs incorporate by reference all preceding paragraphs.

147. The Product was manufactured, labeled and sold by defendant and warranted to plaintiffs and class members that they possessed substantive, functional, nutritional, qualitative, compositional, organoleptic, sensory, physical and other attributes which they did not.

148. The amount and proportion of the characterizing component, vanilla, has a material bearing on price or consumer acceptance of the Products because consumers are willing to pay more for such Products.

149. Defendant had a duty to disclose and/or provide non-deceptive descriptions and marketing of the Product.

150. This duty is based, in part, on defendant's position as one of the most recognized companies in the nation in this sector.

151. Plaintiffs provided or will provide notice to defendant, its agents, representatives, retailers and their employees.

152. Defendant received notice and should have been aware of these misrepresentations due to numerous complaints by consumers to its main office over the past several years regarding the Product, of the type described here.

153. The Product did not conform to its affirmations of fact and promises due to defendant's actions and were not merchantable.

154. Plaintiffs and class members would not have purchased the Product or paid as much if the true facts had been known, suffering damages.

Fraud

155. Plaintiffs incorporate by reference all preceding paragraphs.

156. The amount and proportion of the characterizing component, vanilla, has a material bearing on price or consumer acceptance of the Products because consumers are willing to pay more for such Products.

157. Defendant's fraudulent intent is evinced by its failure to accurately identify the Product on the front labels, when it knew its statements were neither true nor accurate.

158. Plaintiffs and class members would not have purchased the Product or paid as much if the true facts had been known, suffering damages.

Unjust Enrichment

159. Plaintiffs incorporate by reference all preceding paragraphs.

160. Defendant obtained benefits and monies because the Product was not as represented and expected, to the detriment and impoverishment of plaintiffs and class members, who seek restitution and disgorgement of inequitably obtained profits.

Jury Demand and Prayer for Relief

Plaintiffs demand a jury trial on all issues.

**WHEREFORE**, Plaintiffs pray for judgment:

1. Declaring this a proper class action, certifying plaintiffs as representatives and the undersigned as counsel for the class;
2. Entering preliminary and permanent injunctive relief by directing defendant to correct the challenged practices to comply with the law;
3. Injunctive relief to remove, correct and/or refrain from the challenged practices and representations, and restitution and disgorgement for members of the class pursuant to the

applicable laws;

4. Awarding monetary damages and interest pursuant to the common law and other statutory claims;
5. Awarding costs and expenses, including reasonable fees for plaintiffs' attorneys and experts; and
6. Other and further relief as the Court deems just and proper.

Dated: April 9, 2020

Respectfully submitted,

Sheehan & Associates, P.C.

/s/Spencer Sheehan

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1:19-cv-08993-VM  
United States District Court  
Southern District of New York

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Ryan Cosgrove, Clive Rhoden, individually and on behalf of all others similarly situated,

Plaintiffs,

- against -

Blue Diamond Growers,

Defendant

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First Amended Class Action Complaint

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Pursuant to 22 NYCRR 130-1.1, the undersigned, an attorney admitted to practice in the courts of New York State, certifies that, upon information, and belief, formed after an inquiry reasonable under the circumstances, the contentions contained in the annexed documents are not frivolous.

Dated: April 9, 2020

/s/ Spencer Sheehan  
Spencer Sheehan